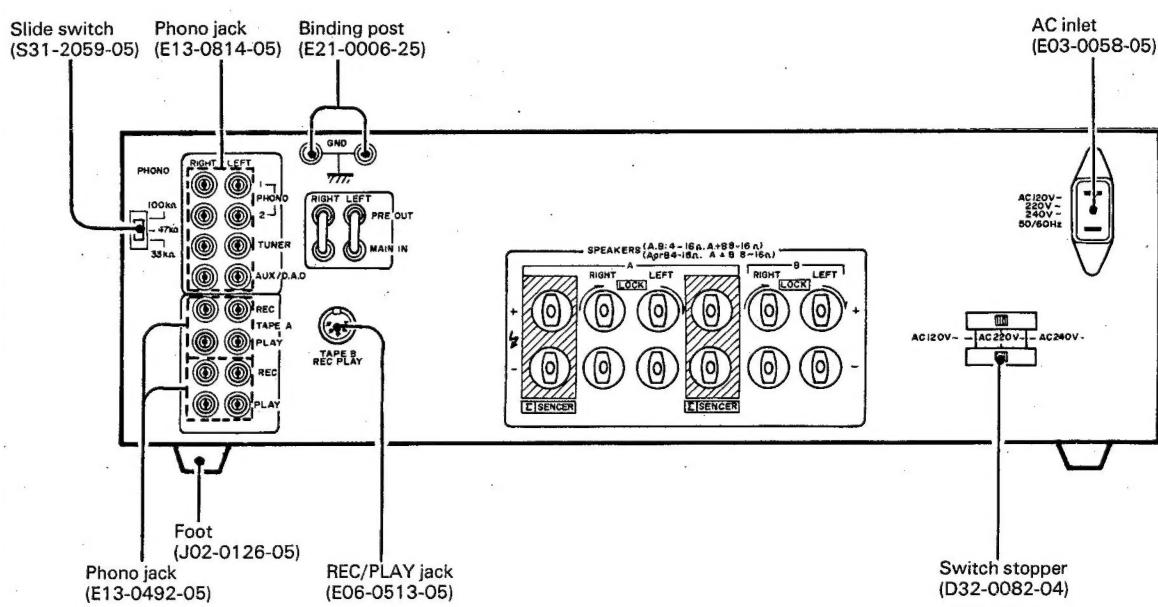
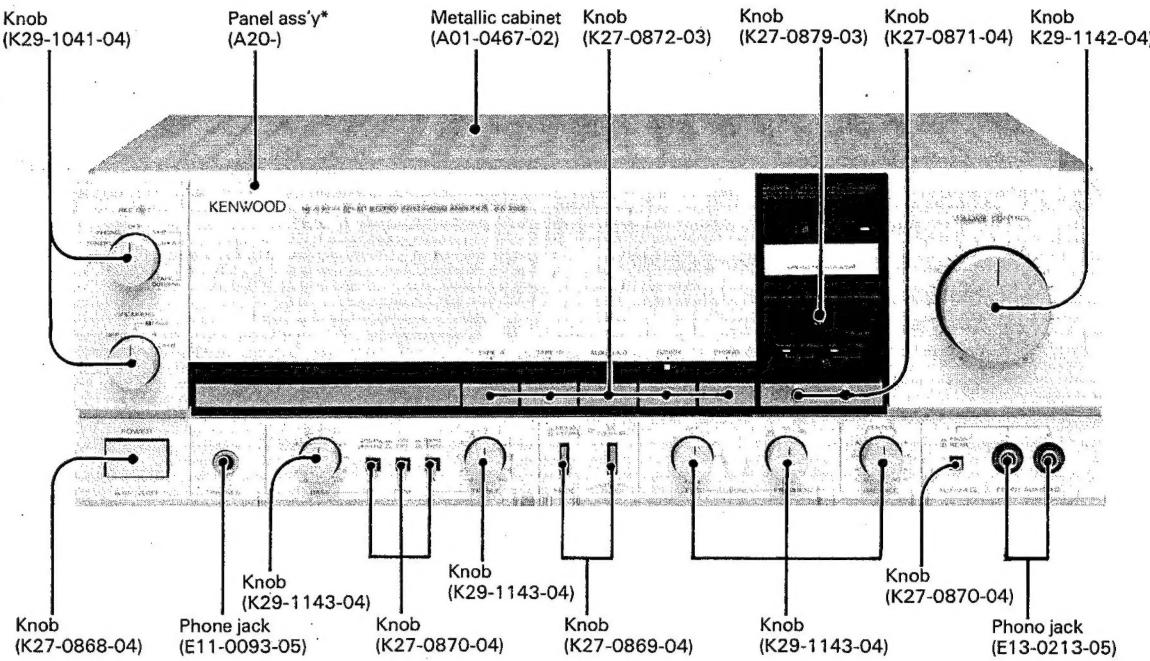


Service Manual

KENWOOD KA-2200

NEW HIGH SPEED STEREO INTEGRATED AMPLIFIER



*Refer to Parts List on page 11.
Photo is E type.

DISASSEMBLY FOR REPAIR

- Fader pc board (X11 A/6) can be removed without removing the panel ass'y. When replacing the components on the pc boards, it is recommended to remove the panel ass'y before disassembly. The other pc boards can be removed, all attached to the sub pannel, by the following procedures.

In the figure below, the panel ass'y is kept on to show that disassembly can be done without removing panel ass'y.

- Pull the remote switch shaft of SPEAKER selector S1 and REC OUT selector S5 up to disengage them from the switches (①, ②).

NOTE: Do not change the position of the selector knobs after removing the remote switch shaft. If changed, either the remote switch shaft can not be plugged in or the position of the switch and the selected indication on the panel ass'y will not match. Also, be careful of the remote switch shaft. If the covering of the remote switch shaft (the blue plastic part) breaks, the switch can not be operated.

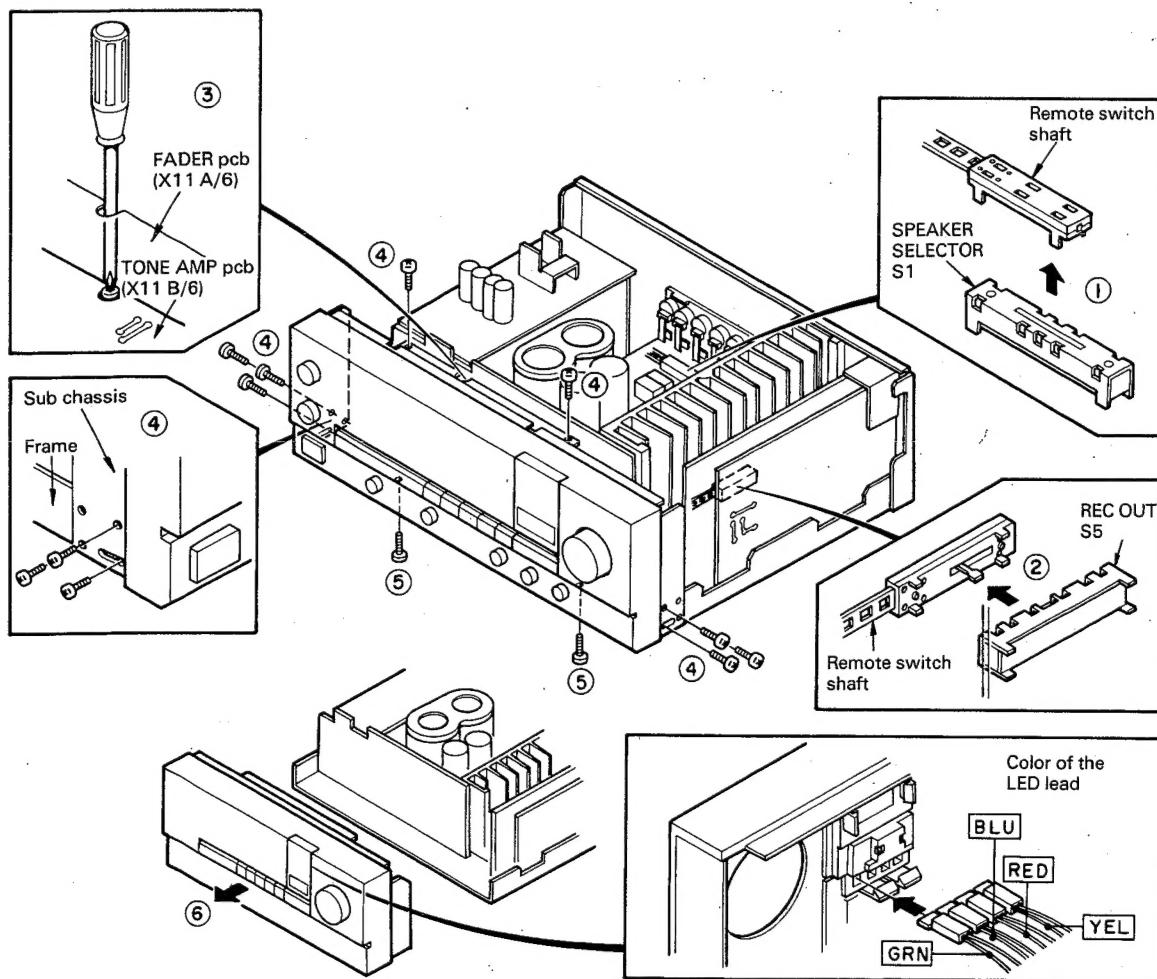
- Insert a screw driver through the round cutting of FADER pc board (X11 A/6) and remove the screw on the TONE AMP pc board (X11 B/6) (③).

- Remove 2 backmost screws on the FADER pc board and 6-screws on the sides of the sub panel (④).

- Remove 2 screws right behind the panel ass'y on the bottom plate (⑤).

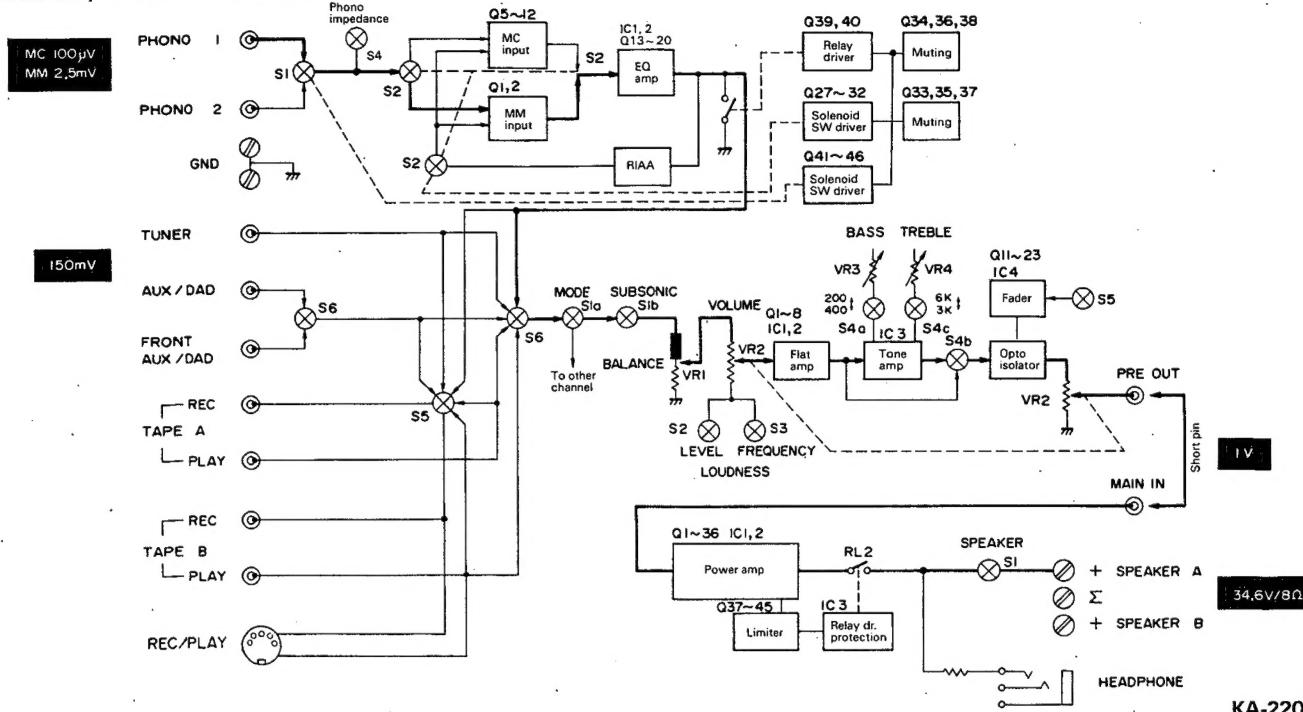
- In this condition, the following pc boards will be separated all attached to the sub panel.

The pc boards are, FADER (X11 A/6), FADER SWITCH (X11 D/6), VOLUME (X11 C/6), PHONO 1/2, MM/MC SWITCH (X08 B/10), SELECTOR (X08 C/10), TONE AMP (X11 B/6), HEADPHONE (X08 H/10), FRONT/REAR AUX/DAD (X11 E/6, F/6).



BLOCK/LEVEL DIAGRAM/ADJUSTMENT

BLOCK/LEVEL DIAGRAM



KA-2200(E)

ADJUSTMENT

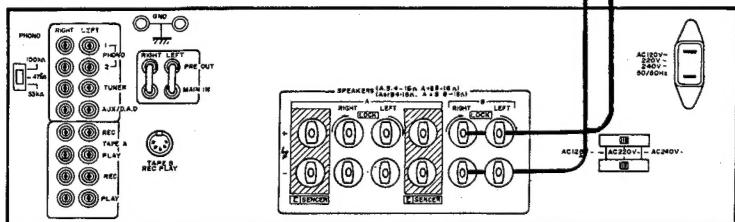
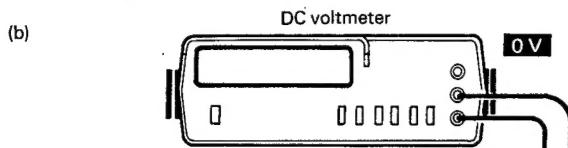
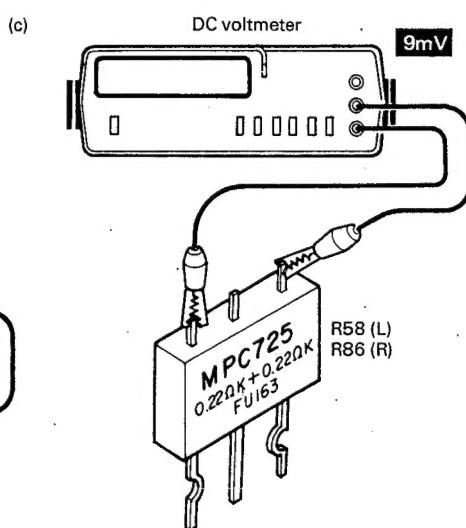
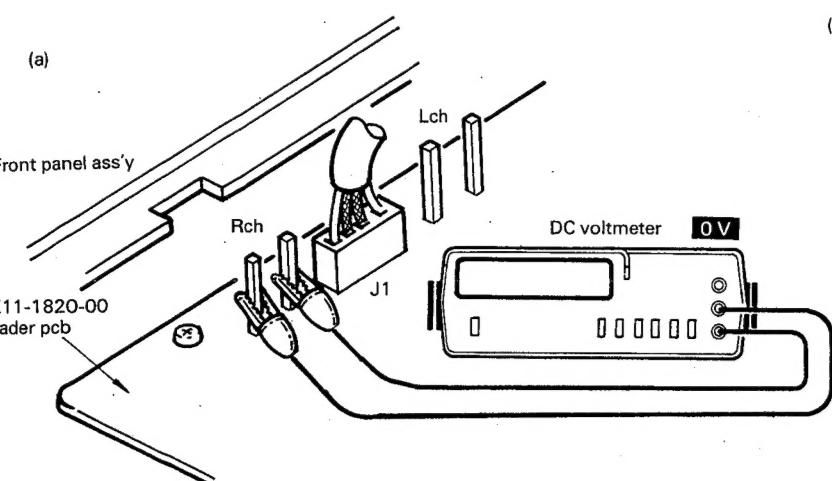
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as follows: SPEAKER: B REC OUT: OUT SELECTOR: PHONO							
1	OFFSET (X11-1882-71)	-	Connect a DC voltmeter to TP of X11 A/6.	MM/MC: MM	VR5 (L) VR6 (R)	OV	(a)
2	OFFSET (X07-2032-71)	-	Connect a DC voltmeter to SPEAKER B terminal.	VOLUME: 0	VR1 (L) VR2 (R)	OV	(b)
3	IDLE CURRENT (X07-2032-71)	-	Connect a DC voltmeter across R85 (L) R86 (R)	VOLUME: 0	VR3 (L) VR4 (R)	9 mV	(c)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SPEAKER: B REC OUT: OUT SELECTOR: PHONO							
1	OFFSET (X11-1882-71)	-	Connecter un voltmètre de CC aux TP de X11 A/6.	MM/MC: MM	VR5 (L) VR6 (R)	OV	(a)
2	OFFSET (X07-2032-71)	-	Connecter un voltmètre de CC aux bornes de sortie + et - (SPEAKER B)	VOLUME: 0	VR1 (L) VR2 (R)	OV	(b)
3	COURANT DE POLARISATION	-	Connecter un voltmètre de CC SUR R85 (D) R86 (G)	VOLUME: 0	VR3 (L) VR4 (R)	9 mV	(c)

ABGLEICH

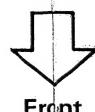
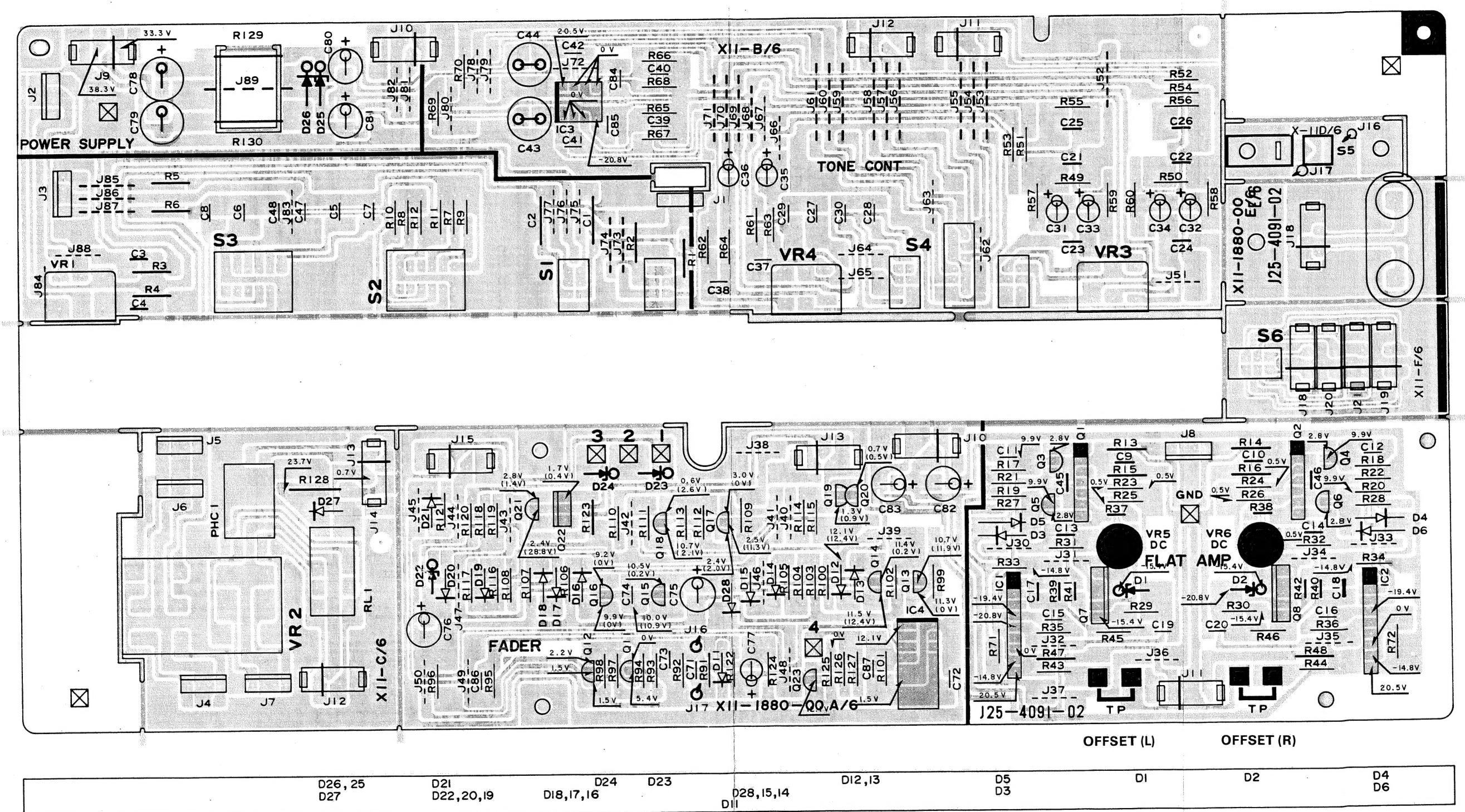
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SPEAKER: B REC OUT: OUT SELECTOR: PHONO							
1	OFFSET (X11-1882-71)	-	Einen Gleichspannungsmesser über TP von X11 A/6 anschließen.	MM/MC: MM	VR5 (L) VR6 (R)	0V	(a)
2	OFFSET (X07-2032-71)	-	Einen Gleichspannungsmesser über SPEAKER B anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	0V	(b)
3	LEERLAUF-STROM	-	Einen Gleichspannungsmesser über R85 (L) R86 (R)	VOLUME: 0	VR3 (L) VR4 (R)	9 mV	(c)



KA-2200 KA-2200

PC BOARD

CONTROL (X11-1882-71) Component side view



Refer to the schematic diagram for the values of capacitors and resistors.
The PC board drawing is viewed from the side easy to check.

In this model, there are separated pc boards which were originally one. These separated pc boards can't be supplied independently.

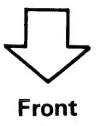
Ex.	Part No. of pc board	Separated portion No.
X09-1230-00	(A/3)	
X09-1230-00	(B/3)	
X09-1230-00	(C/3)	

In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

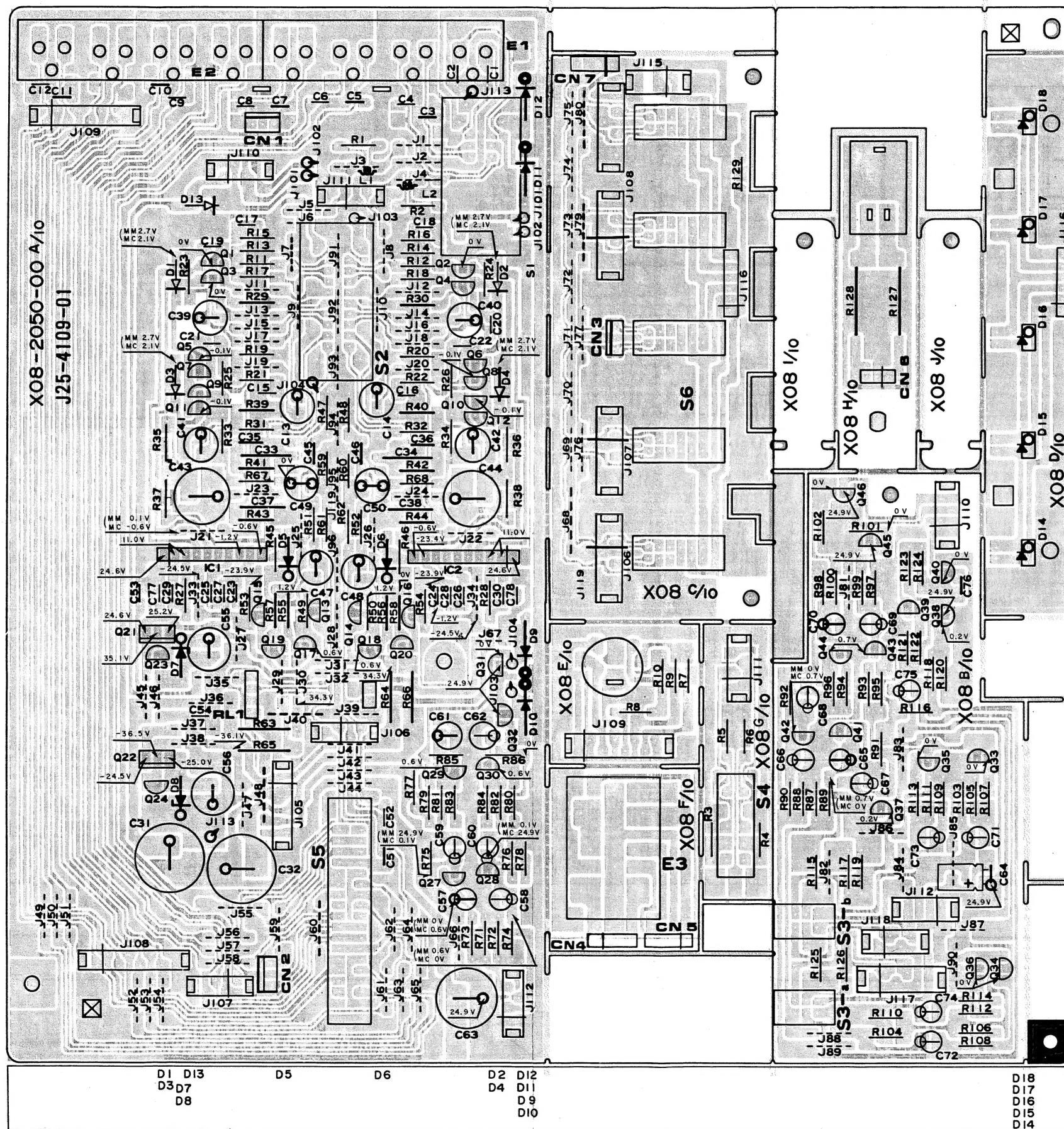
KA-2200 **KA-2200**

PC BOARD

**PREAMP
(X08-2052-71)
Component side view**



Front



In this model, there are separated pc boards which were originally one. These separated pc boards can't be supplied independently.

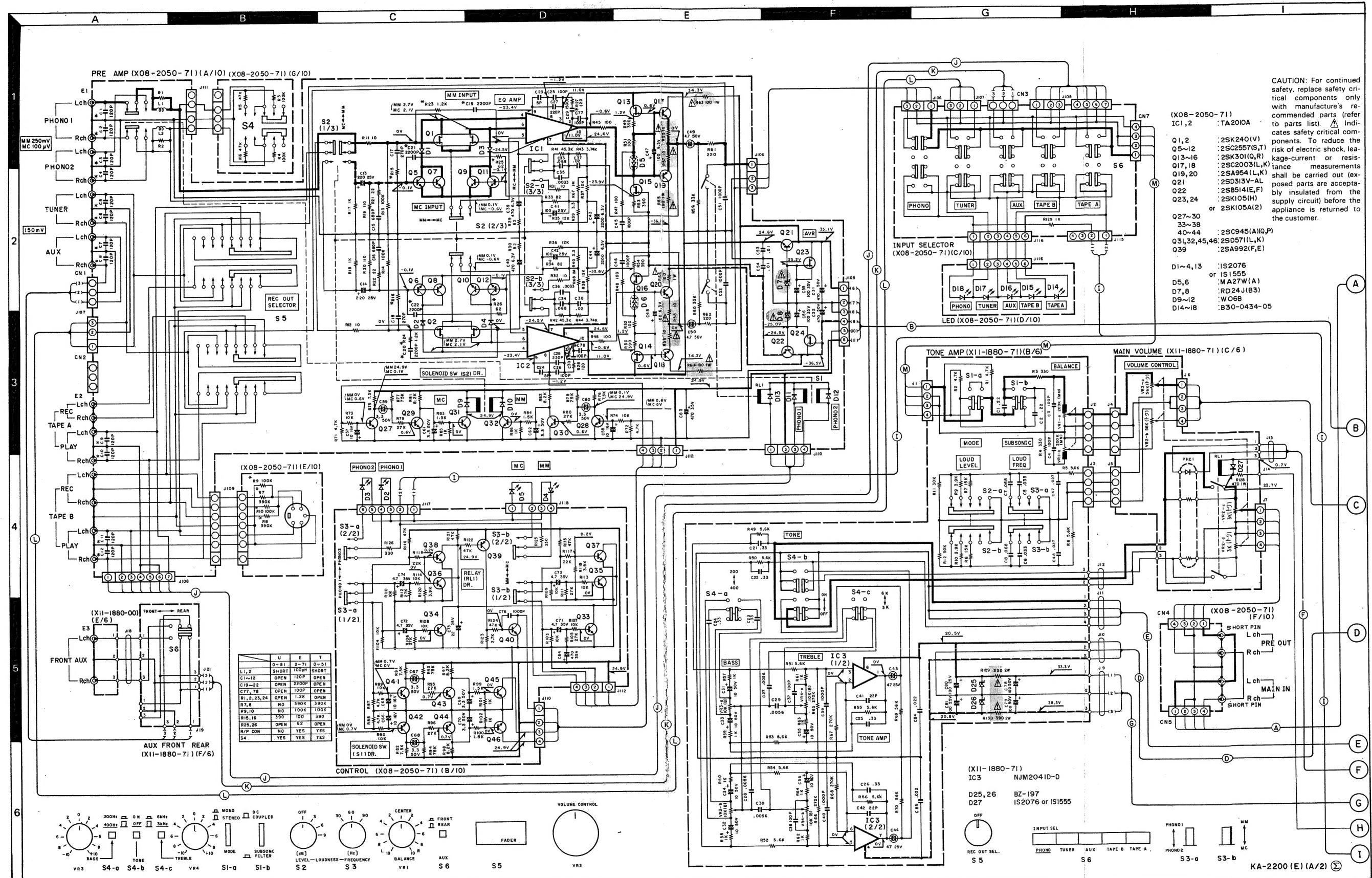
Ex.	Part No. of pc board	Separated portion No.
	X09-1230-00	(A/3)
	X09-1230-00	(B/3)
	X09-1230-00	(C/3)

In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

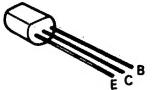
KENWOOD

STEREO INTEGRATED AMPLIFIER

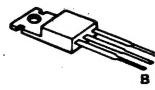
KA-2200



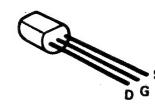
2SA954
 2SA992
 2SC2003
 2SC945



2SB514
 2SC2557
 2SD313V-AL



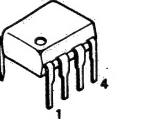
2SK105
 2SK105A
 2SK301



NJM2041D-D



TA2010A

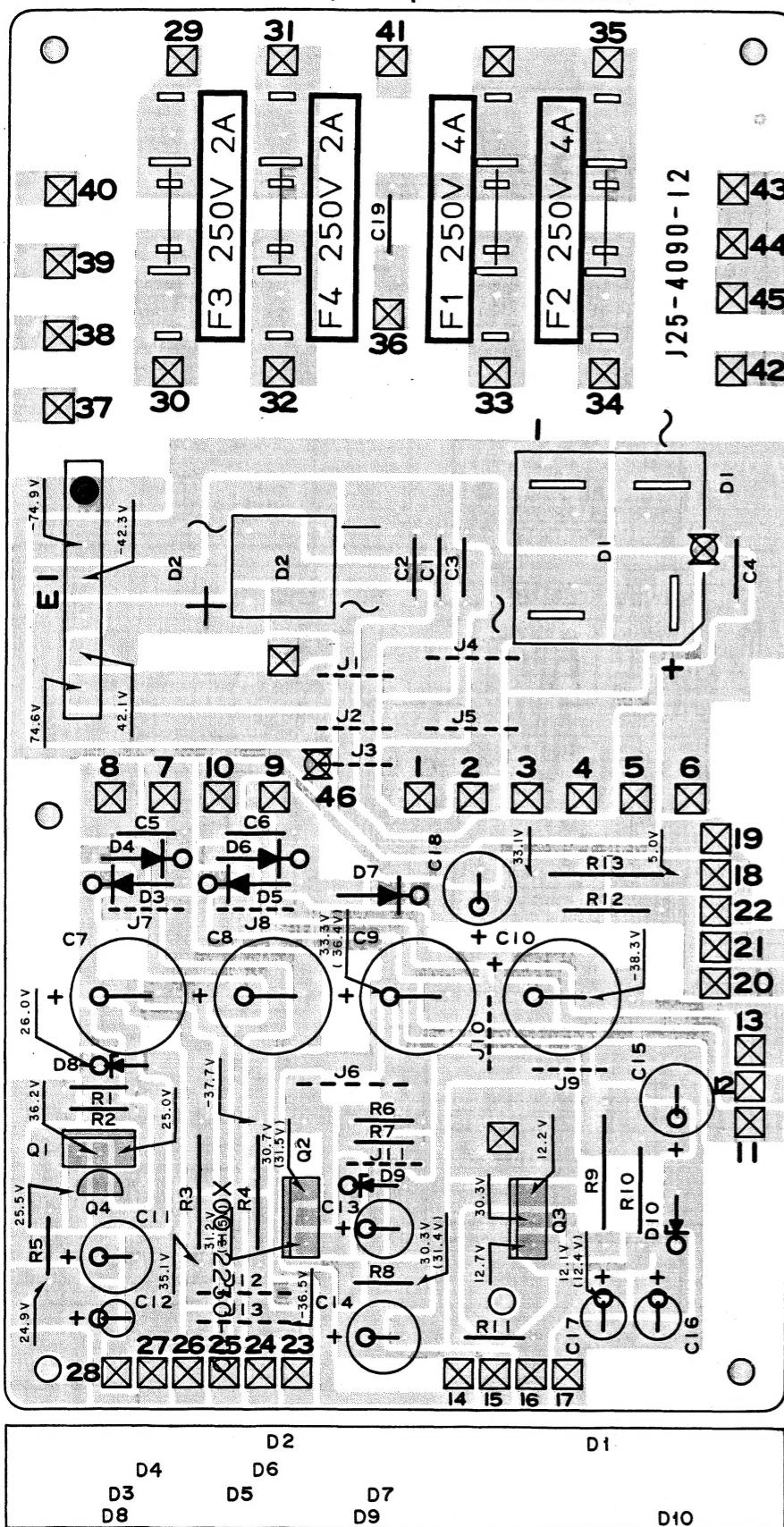


DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

KA-2200 **KA-2200**

PC BOARD

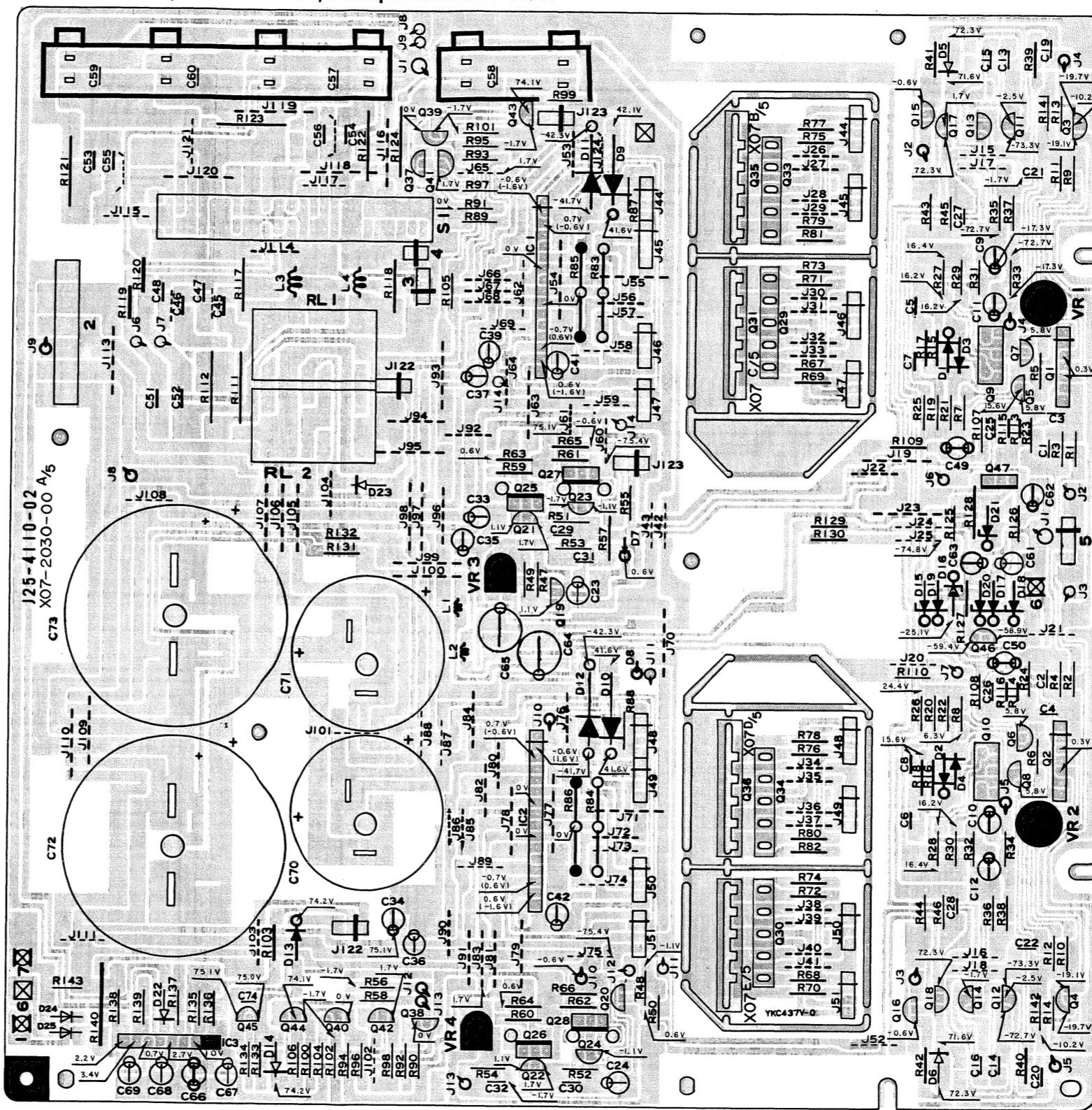
POWER (X00-2232-71) Component side view



In this model, there are separated pc boards which were originally one. These separated pc boards can't be supplied independently.

Ex.	Part No. of pc board	Separated portion No.
	X09-1230-00	(A/3)
	X09-1230-00	(B/3)
	X09-1230-00	(C/3)

POWER AMP (X07-2032-71) Component side view

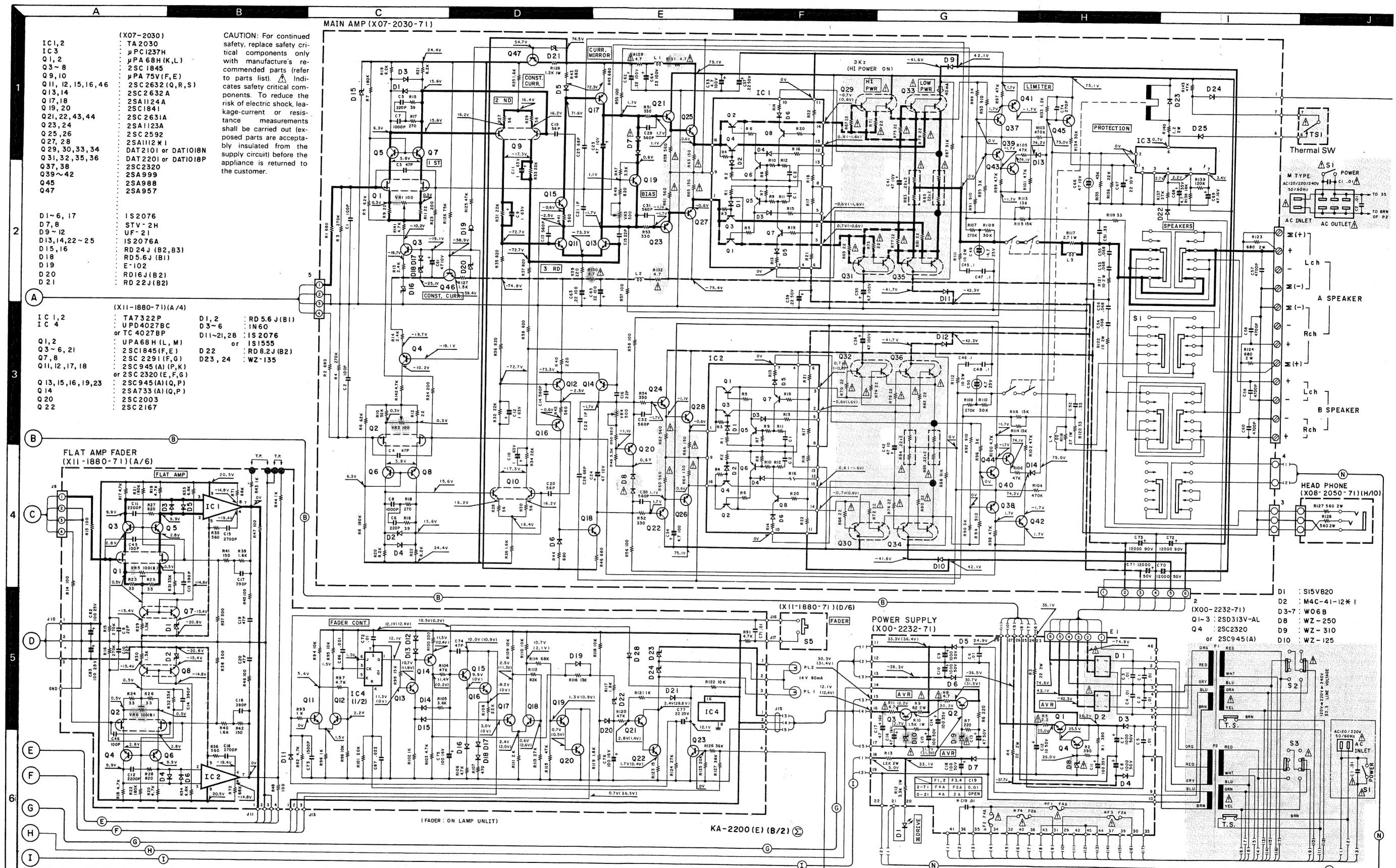


In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

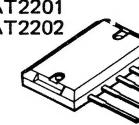
Refer to the schematic diagram for the values of capacitors and resistors.
The PC board drawing is viewed from the side easy to check.

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STEREO INTEGRATED AMPLIFIER



DAT1015N
DAT1015P
DAT1018N
DAT1018P
DAT2101
DAT2102



DAT2201
DAT2202
2SA1123A
2SA1124A
2SA733
2SA988
2SA999
2SC1841

2SC1845
2SC2320
2SC2631A
2SC2632A
2SD313V-AL

2SA1112
2SA957
2SC2167
2SC2592
2SC2632
2SC2632A

2SC2291

μPA75V

μPA68H

TC4027BP
μPD4027BC

TA7322P

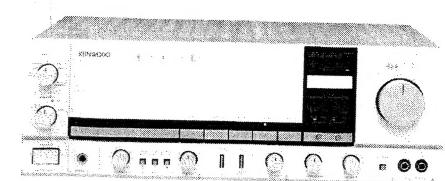
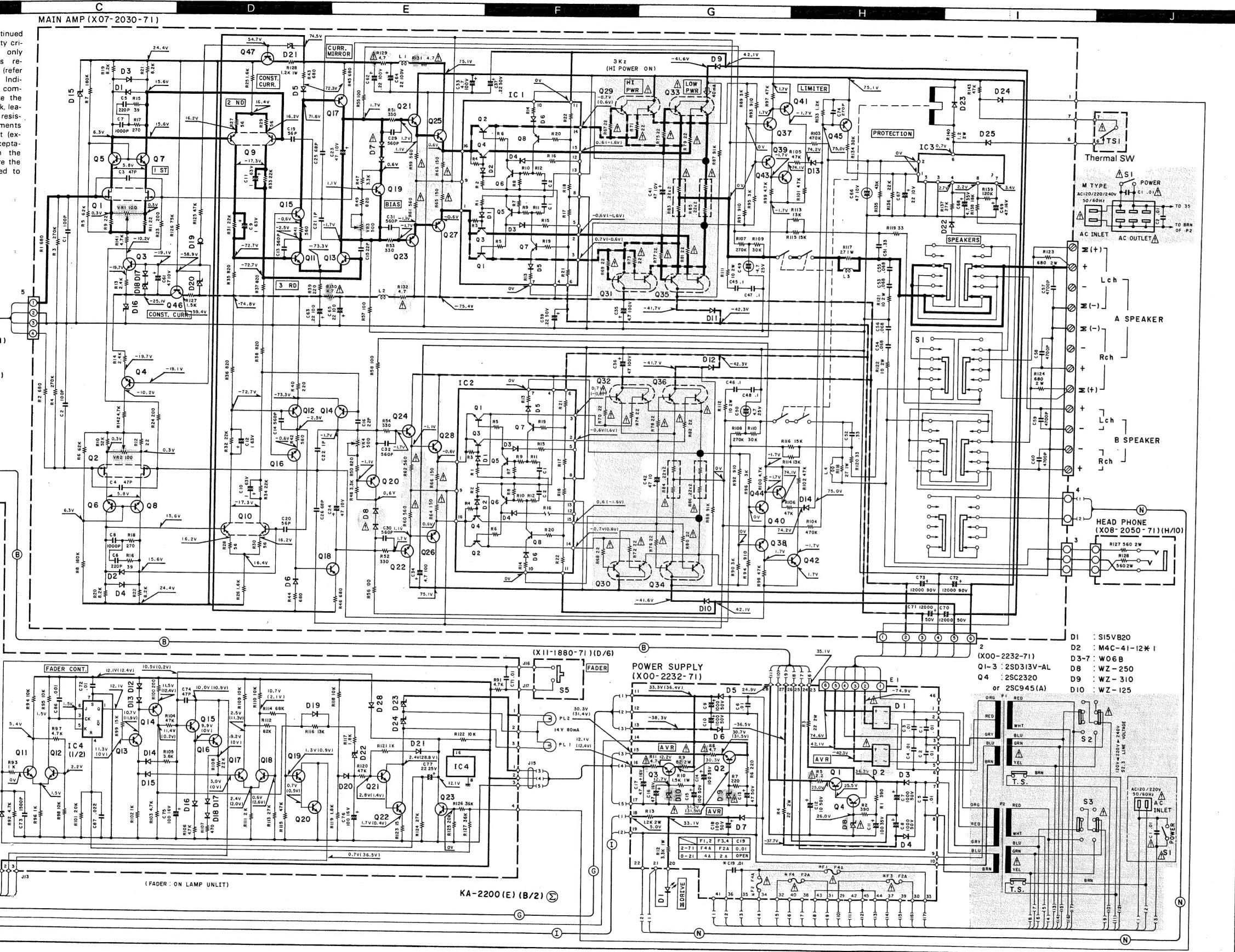
μPC1237H

TA2030

DC voltages are as voltmeter with nc slightly due to var ments or/and units.

KA-2200

STEREO INTEGRATED AMPLIFIER



SPECIFICATIONS

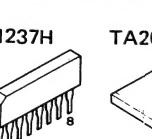
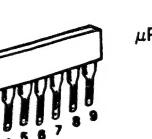
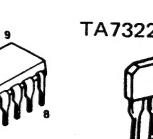
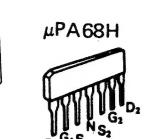
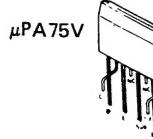
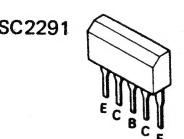
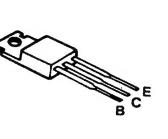
Total Harmonic Distortion (20 Hz to 20,000 Hz)	0.003% at rated power into 8 ohms
AUX input to SPEAKER output	0.003% at 1/2 rated power into 8 ohms
PHONO input to SPEAKER output	0.005% at rated power with VOLUME -20 dB
Intermodulation Distortion	0.003% at rated power into 8 ohms
(60 Hz: 7 kHz = 4 : 1)	
Damping Factor	1,000 at 100 Hz
Transient Response	
Rise Time	1.7 μ s
Slew Rate	\pm 100 V/ μ s
Frequency Response (DC COUPLED at ON)	DC to 200 kHz, +0 dB, -3 dB
(DC COUPLED at OFF)	DC to 200 kHz, +0 dB, -3 dB
Speaker Impedance	Accept 4 ohms to 16 ohms
Input Sensitivity/Impedance	
Phono (MM)	2.5 mV/33 kohms, 47 kohms
Phono (MC)	0.1 mV/100 ohms
Tuner, AUX, Tape A, B	150 mV/47 kohms
Signal to Noise Ratio (IHF-A)	
Phono (MM)	88 dB for 2.5 mV input
Phono (MC)	94 dB for 5.0 mV input
Tuner, AUX, Tape A, B	100 dB for 10 mV input
Maximum Input Level	70 dB for 0.1 mV input
Phono (MM)	76 dB for 0.2 mV input
Phono (MC)	110 dB for 150 mV input
Output Level/Impedance	
Tape REC (Pin)	150 mV/220 ohms
(DIN)	30 mV/80 kohms
Phono Frequency Response	RIAA standard curve \pm 0.2 dB (20 Hz to 20 kHz)
Tape Control	
Bass Turnover Freq.	200 Hz \pm 10 dB at 50 Hz
400 Hz	\pm 10 dB at 100 Hz
Treble Turnover Freq.	3 kHz \pm 10 dB at 10 kHz
6 kHz	\pm 10 dB at 20 kHz
Loudness Control (at -40 dB VOLUME Level)	
30 Hz	+3/6/9 dB
60 Hz	+3/6/9 dB
90 Hz	+3/6/9 dB
Subsonic Filter	18 Hz, 6 dB/oct
GENERAL	
Power Requirements	50 Hz 220V...European Model, 50 Hz 240V...UK Model, or 50/60 Hz 110-120/220-240V (switchable)
Power Consumption	900W at Rated Output at 8 ohms
A.C. Outlet	Switched 2, Unswitched 1
Dimensions	W 440 mm (17-5/16") H 158 mm (6-7/32") D 383 mm (15-3/32")

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

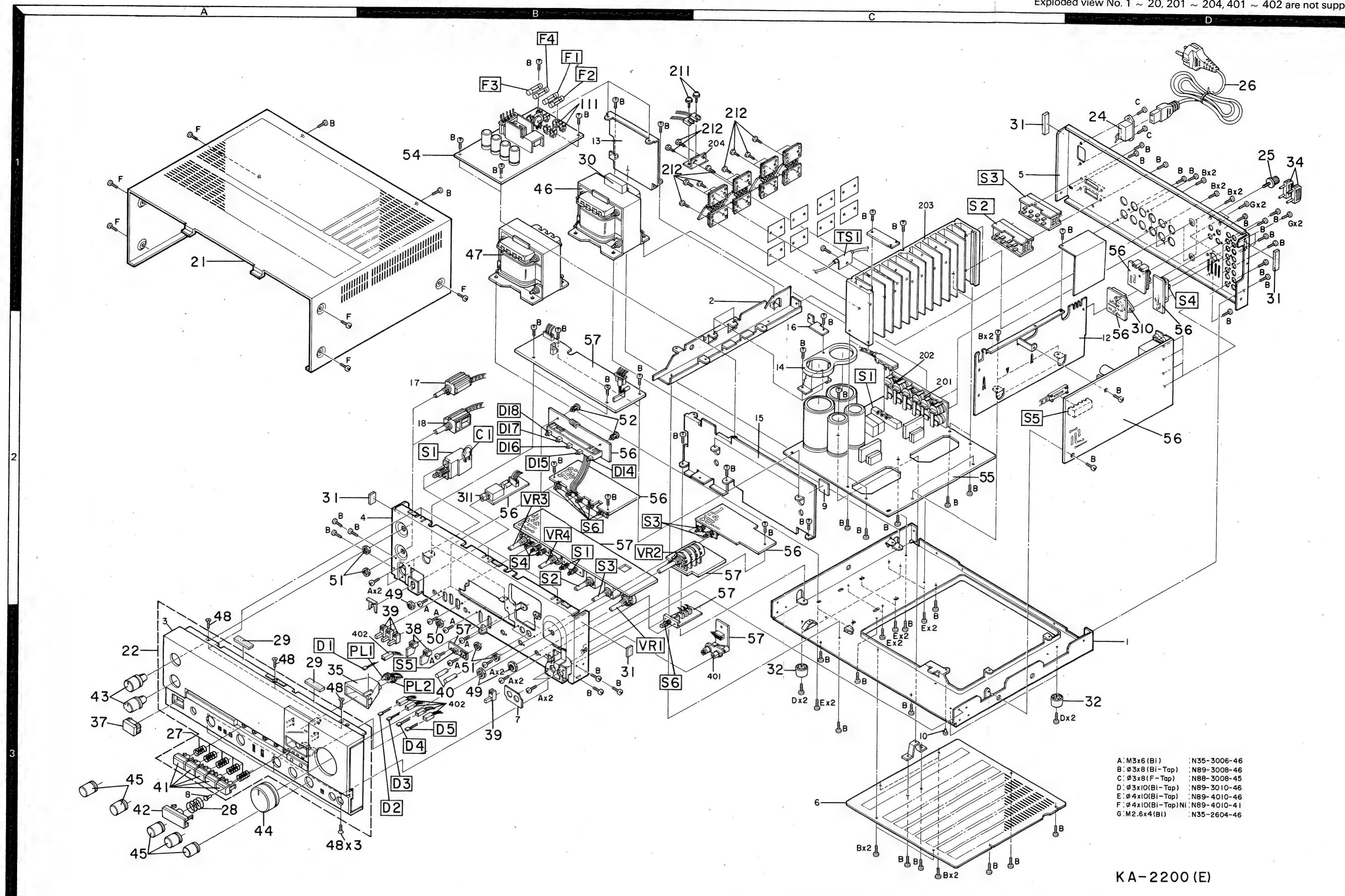
845
320
631A
45
003



DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW

Exploded view No. 1 ~ 20, 201 ~ 204, 401 ~ 402 are not supplied

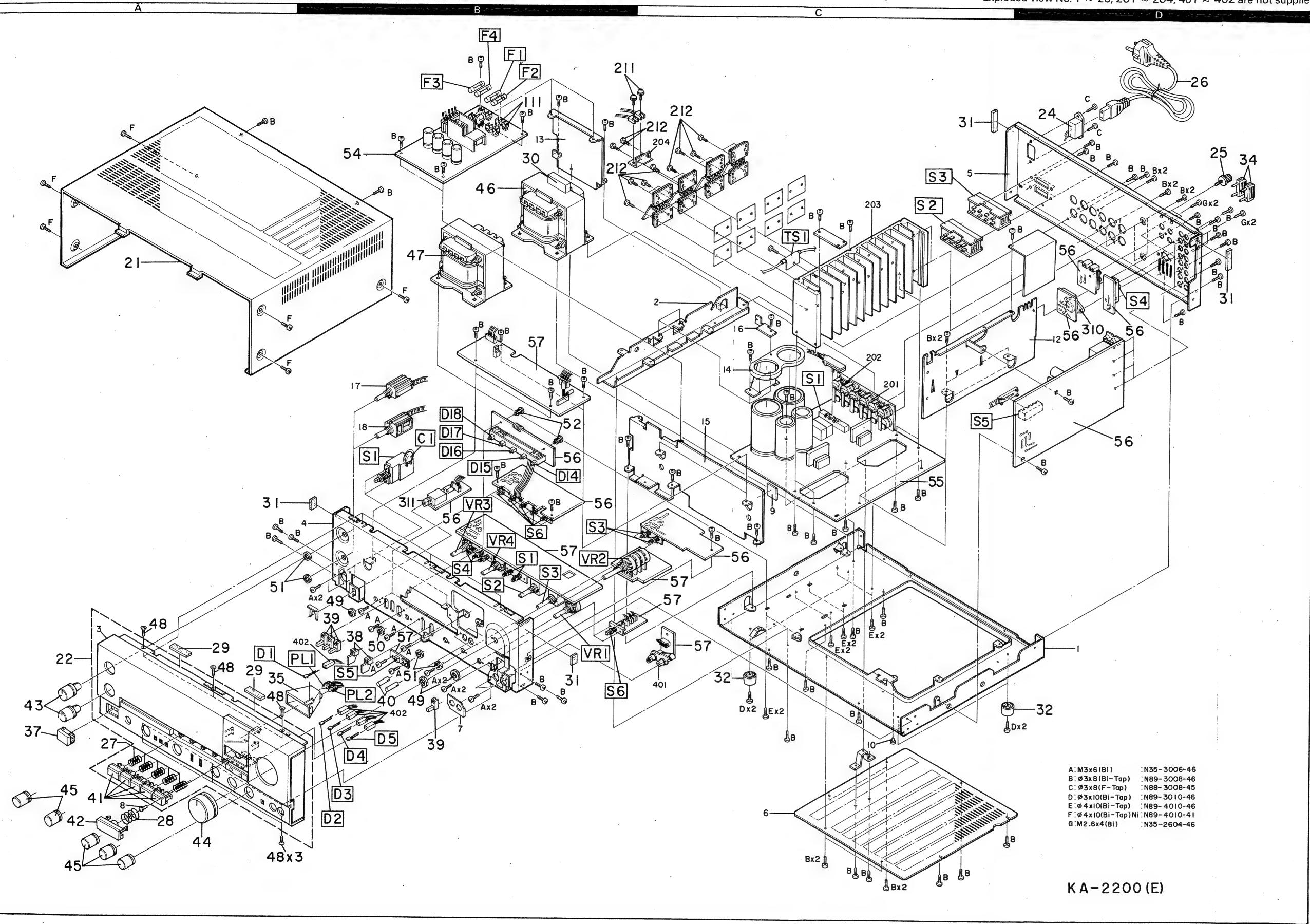


KA-2200

KA-2200

EXPLODED VIEW

Exploded view No. 1 ~ 20, 201 ~ 204, 401 ~ 402 are not supplied.



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
KA-2200						
21	1A	*	A01-0467-02	METALLIC CABINET		
22	3A	*	A20-3381-01	PANEL ASSY	UMHUE	
22	3A	*	A20-3381-01	PANEL ASSY	XE	
22	3A	*	A20-3382-01	PANEL ASSY	T	
-			B46-0094-03	WARRANTY CARD	UHUE	
-			B46-0095-03	WARRANTY CARD	UHUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-4588-00	INSTRUCTION MANUAL (ENGLISH)	UMHUE	
-		*	B50-4588-00	INSTRUCTION MANUAL (ENGLISH)	X	
-		*	B50-4589-00	INSTRUCTION MANUAL (FRENCH)	MX	
-		*	B50-4590-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B50-4591-00	INSTRUCTION MANUAL (ENGLISH)	T	
-		*	B50-4592-00	INSTRUCTION MANUAL (4-LINGUAL)	E	
D1 -5	3A, 3B		B59-0092-00	SERVICE DIRECTORY	UHUE	
PL1 *2	3A, 3B	*	B30-0321-05	LED(PR7531K) (SIGMA DR, PHONO1)		
		*	B30-0433-15	LAMP 14V 0.08A (FADER)		
▲ C1			C91-0079-05	CERAMIC 0.01UF	AC125V	TE
▲ C1 ,2	2B, 1D		C91-0023-05	CERAMIC 0.01UF	AC250V	UMHUE
▲ C1 ,2	2B, 1D		C91-0023-05	CERAMIC 0.01UF	AC250V	X
▲ 23	1D		E03-0007-05	AC OUTLET	UMHUE	
▲ 23	1D		E03-0007-05	AC OUTLET	X	
▲ 24	1D		E03-0058-05	AC INLET		
25	1D		E21-0006-25	BINDING POST (GND)		
▲ 26	1D		E30-0726-05	AC POWER CORD (INLET)	E	
▲ 26	1D		E30-0728-05	AC POWER CORD (INLET)	T	
▲ 26	1D		E30-0729-05	AC POWER CORD (INLET)	X	
▲ 26	1D		E30-0733-05	AC POWER CORD (INLET)	UMHUE	
27	3A		G01-0488-04	COMPRESSION SPRING (SELECTOR)		
28	3A		G01-0489-04	COMPRESSION SPRING (FADER)		
29	3A		G10-0057-04	NON-WOVEN FABRIC		
30	1B		G11-0145-04	SOFT TAPE 40X16X12		
31	1D, 3B		G11-0192-04	CUSHION 40X8X2		
-		*	H01-4701-04	ITEM CARTON CASE	T	
-		*	H01-4702-04	ITEM CARTON CASE	UMHUE	
-		*	H01-4702-04	ITEM CARTON CASE	XE	
-			H10-1631-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-1632-02	POLYSTYRENE FOAMED FIXTURE		
-			H20-0453-04	PROTECTION COVER		
-			H25-0078-04	PROTECTION BAG 235X315		
-		*	H25-0204-04	PROTECTION BAG		
32	3C, 3D		J02-0126-05	FOOT		
34	1D	*	J12-0091-05	SHORTING PIN (PRE OUT/MAIN IN)		
35	3A		J19-0658-04	HOLDER (LAMP)		
-			J61-0045-15	WIRE BAND	TE	
-			J61-0307-05	WIRE BAND		
37	3A		K27-0868-04	KNOB(BUTTON) (POWER)		
38	3B		K27-0869-04	KNOB(BUTTON) (MODE, SUBSONIC)		
39	3B		K27-0870-04	KNOB(BUTTON) (TURNOVER, TONE)		
39	3B		K27-0870-04	KNOB(BTN) (AUX/DAD FRONT/REAR)		
40	3B		K27-0871-04	KNOB(BUTTON) (MM/MC, PHONO 1/2)		

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

△ indicates safety critical components.

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE : AAFES(Europe)

X: Australia M: Other Areas

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
41	3A	*	K27-0872-03	KNOB(BUTTON) (IN PANEL ASSY)		
42	3A	*	K27-0879-03	KNOB(BUTTON) (FADER)		
43	3A		K29-1041-04	KNOB (REC OUT, SPEAKERS)		
44	3A		K29-1142-04	KNOB (VOLUME CONTROL)		
45	3A		K29-1143-04	KNOB (BASS, TREBLE, LOUD, BAL)		
△ 46	1B	*	L01-2916-05	POWER TRANSFORMER		
△ 47	1B	*	L01-2926-05	POWER TRANSFORMER		
48	3A		N09-1277-05	SCREW (Φ3X8 F-TAP) PANEL ASSY		
52	2B		N29-0035-05	PUSH RIVET Φ 3.5X5.5		
△ S1	2B		S40-1014-05	PUSH SWITCH (POWER TYPE)	UMHUE	
△ S1	2B		S40-1014-05	PUSH SWITCH (POWER TYPE)	X	
△ S1	2B		S40-1047-05	PUSH SWITCH (POWER TYPE)	TE	
△ S2 ,3	1C		S31-2046-05	SLIDE SWITCH (POWER TYPE)		
54	1B	*	X00-2230-21	POWER SUPPLY UNIT	UMHUE	
54	1B	*	X00-2230-21	POWER SUPPLY UNIT	X	
54	1B	*	X00-2232-71	POWER SUPPLY UNIT	TE	
55	2C	*	X07-2030-00	POWER AMPLIFIER UNIT	UMHUE	
55	2C	*	X07-2030-00	POWER AMPLIFIER UNIT	XT	
55	2C	*	X07-2032-71	POWER AMPLIFIER UNIT	E	
56	2B-D	*	X08-2050-51	PREAMPLIFIER UNIT	T	
56	2B-D	*	X08-2050-81	PREAMPLIFIER UNIT	UMHUE	
56	2B-D	*	X08-2050-81	PREAMPLIFIER UNIT	X	
56	2B-D	*	X08-2052-71	PREAMPLIFIER UNIT	E	
57	2B,2C	*	X11-1880-00	CONTROL UNIT	UMHUE	
57	2B,2C	*	X11-1880-00	CONTROL UNIT	XT	
57	2B,2C	*	X11-1882-71	CONTROL UNIT	E	

POWER SUPPLY (X00-2230-21)

C1 -6		CK45E2H103P	CERAMIC	0.01UF	P	
△ C19		C91-0079-05	CERAMIC	0.01UF	AC125V	TE
△ F1 ,2	1B	F05-4022-05	FUSE	250V 4A		UMHUE
△ F1 ,2	1B	F05-4022-05	FUSE	250V 4A		X
△ F1 ,2	1B	F05-4024-05	FUSE (SEMKO)	250V F4A		TE
△ F3 ,4	1B	F05-2023-05	FUSE	250V 2A		UMHUE
△ F3 ,4	1B	F05-2023-05	FUSE	250V 2A		X
△ F3 ,4	1B	F05-2029-05	FUSE (SEMKO)	250V F2A		TE
111	1B	J13-0041-05	FUSE CLIP			UMHUE
111	1B	J13-0041-05	FUSE CLIP			X
111	1B	J13-0054-05	FUSE CLIP			TE
R1 ,2		RD14GB2E391JMA	FL-PROOF RD	390	J 2E	
△ R3		RS14GB3D220JMA	FL-PROOF RS	22	J 3D	
R4		RS14GB3D220JMA	FL-PROOF RS	22	J 3D	
△ R5	*	RD14GB2E2R2JMA	FL-PROOF RD	2.2	J 2E	
R6 ,7		RD14GB2E221JMA	FL-PROOF RD	220	J 2E	
△ R8		RD14GB2E4R7JMA	FL-PROOF RD	4.7	J 2E	
△ R9		RS14GB3D820JMA	FL-PROOF RS	82	J 3D	
R10		RS14GB3A152JMA	FL-PROOF RS	1.5K	J 3A	
R11		RD14GB2E4R7JMA	FL-PROOF RD	4.7	J 2E	
R12		RS14GB3A332JMA	FL-PROOF RS	3.3K	J 3A	
R13		RS14GB3D122JMA	FL-PROOF RS	1.2K	J 3D	
D1		* S15VB20	DIODE		(BRIDGE RECTIFIER)	
D2		M4C-41-12*1	DIODE		(BRIDGE RECTIFIER)	

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△ D2		*	M4C-42-12*1	DIODE	(BRIDGE RECTIFIER)				
D3 -7			WD6B	DIODE					
△ D8			WZ-250	ZENER DIODE					
△ D9			WZ-310	ZENER DIODE					
△ D10			WZ-125	ZENER DIODE					
Q1 -3			2SD313V-AL	TRANSISTOR					
Q4			2SC2320	TRANSISTOR					
Q4			2SC945(A)	TRANSISTOR					
POWER AMPLIFIER (X07-2030-00)									
C1 ,2			CC45FSL1H101J	CERAMIC	100PF	J			
C3 ,4			CC45FSL1H470J	CERAMIC	47PF	J	E		
C5 ,6		*	CK45FB1H221K	CERAMIC	220PF	K	E		
C5 ,6		*	CK45FB1H561K	CERAMIC	560PF	K	UMHUE		
C5 ,6		*	CK45FB1H561K	CERAMIC	560PF	K	XT		
C7 ,8			CK45FB1H102K	CERAMIC	0.001UF	K			
C9 -12		*	CE04FW1J010MEL	ELECTRO	1.0UF	63WV			
C13 ,14		*	CK45B2H561K	CERAMIC	560PF	K			
C15 ,16			CC45SL2H220J	CERAMIC	22PF	J	E		
C15 ,16			C91-0170-05	POLYSTY	22PF	K	UMHUE		
C15 ,16		*	CC45FSL1H560J	CERAMIC	56PF	J	XT		
C19		*	CC45FSL1H560J	CERAMIC	56PF	J			
C20		*	CC45FSL1H010C	CERAMIC	1.0PF	C			
C21 ,22			CC45FSL1H680J	CERAMIC	68PF	J	E		
C25 ,26			C91-0176-05	POLYSTY	68PF	K	UMHUE		
C25 ,26			C91-0176-05	POLYSTY	68PF	K	XT		
C27 ,28			CC45FSL1H151J	CERAMIC	150PF	J	UMHUE		
C27 ,28			CC45FSL1H151J	CERAMIC	150PF	J	XT		
C29 -32			CK45FB1H561K	CERAMIC	560PF	K			
C45 -48		*	CQ93FM1H104J	MYLAR	0.10UF	J	E		
C45 ,46		*	CQ93FM1H473J	MYLAR	0.047UF	J	UMHUE		
C45 ,46		*	CQ93FM1H473J	MYLAR	0.047UF	J	XT		
C49 ,50		*	CE04HW1E4R7MEL	NP-ELEC	4.7UF	25WV			
C51 ,52		*	CQ93FM1H334J	MYLAR	0.33UF	J			
C53 -56		*	CQ93FM1H683J	MYLAR	0.068UF	J	E		
C53 ,54		*	CQ93FM1H333J	MYLAR	0.033UF	J	UMHUE		
C53 ,54		*	CQ93FM1H333J	MYLAR	0.033UF	J	XT		
C57 -60			CK45FB1H472K	CERAMIC	4700PF	K	E		
C66		*	CE04HW1A470MEL	NP-ELEC	47UF	10WV			
C69		*	CE04GW1C470MEL	LL-ELEC	47UF	16WV			
C70 ,71		*	C90-1235-05	ELECTRO	12000UF	50WV			
C72 ,73		*	C90-1234-05	ELECTRO	12000UF	90WV			
C74			CC45FSL1H271J	CERAMIC	270PF	J			
-			J61-0045-15	WIRE BAND					
L1 ,2			L33-0275-05	CHOKES COIL					
L3 ,4			L39-0085-05	PHASE-COMPENSATION COIL					
211	1B		N09-0287-05	SEMS SCREW	(VARISTOR)				
212	1B, 1C		N09-1202-05	TAPPING SCREW	(POWER TR)				
R39 ,40			RD14GB2E221JTS	FL-PROOF RD	220	J	2E		
R41 ,42			RD14GB2E561JTS	FL-PROOF RD	560	J	2E		
R43 -46			RD14GB2E681JTS	FL-PROOF RD	680	J	2E		
R51 -54			RD14GB2E331JTS	FL-PROOF RD	330	J	2E		
△ R59 -62			RD14GB2E561JTS	FL-PROOF RD	560	J	2E		

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△ R63 ,66			RD14GB2E151JTS	FL-PROOF RD 150	J 2E	
△ R67 ,82			RD14GB2E220JTS	FL-PROOF RD 22	J 2E	
△ R83 ,86			R90-0187-05	MULTI-COMP D. 22X2	K 3H	
R111,112		*	RS14GB3D100JMA	FL-PROOF RS 10	J 3D	
R113,114			RN92BC2E133F	RN 13K	F 2E	
R115,116			RN92BC2E153F	RN 15K	F 2E	
R117,118			RS14GB3A2R7JMA	FL-PROOF RS 2.7	J 3A	
R119,120			RD14GB2E330JTS	FL-PROOF RD 33	J 2E	
R121,122			RS14GB3D100JMA	FL-PROOF RS 10	J 3D	
R123,124			RS14GB3D681JMA	FL-PROOF RS 680	J 3D	
R127		*	RD14GB2E152JTS	FL-PROOF RD 1.5K	J 2E	
R128			RS14GB3A122JMA	FL-PROOF RS 1.2K	J 3A	
△ R129			RD14GB2E4R7JTS	FL-PROOF RD 4.7	J 2E	
R130			RD14GB2E4R7JTS	FL-PROOF RD 4.7	J 2E	
R131			RD14GB2E4R7JTS	FL-PROOF RD 4.7	J 2E	E
△ R132			RD14GB2E4R7JTS	FL-PROOF RD 4.7	J 2E	E
R140			RS14GB3D122JMA	FL-PROOF RS 1.2K	J 3D	
VR1 ,2			R12-0502-05	TRIMMING POT. 100	(OFFSET)	
VR3 ,4			R12-0302-05	TRIMMING POT. 500	(IDLING)	
RL1 ,2			S51-2045-05	MAGNETIC RELAY		
S1	2C	*	S90-0068-05	SLIDE SWITCH (SPEAKER)		
△ TS1	1C	*	S59-1061-05	THERMAL SWITCH (130°C)		
D1 ,2			1S2076	DIODE		
D3 ,6			1S2076	DIODE		
△ D7 ,8		*	STV-2H	VARISTOR		
D9 ,12			UF-21	DIODE		
D13 ,14			1S2076A	DIODE		
D15 ,16		*	RD24J(B2,B3)	ZENER DIODE		
D17			1S2076	DIODE		
D18		*	RD5.6J(B1)	ZENER DIODE		
D19			E-102	CONSTANT CURRENT DIODE		
D20		*	RD16J(B2)	ZENER DIODE		
D21			RD22J(B2)	ZENER DIODE		
D22 ,25			1S2076A	DIODE		
IC1 ,2			TA2030	IC (SWITCHING)		
IC3			UPC1237H	IC (PROTECTION)		
Q1 ,2			UPA68H(K,L)	DUAL FET		
Q3 ,8			2SC1845	TRANSISTOR		
Q9 ,10			UPA75V(F,E)	DUAL TRANSISTOR		
Q11 ,12			2SC2632(Q,R,S)	TRANSISTOR		
Q13 ,14		*	2SC2632A	TRANSISTOR		
Q15 ,16			2SC2632(Q,R,S)	TRANSISTOR		
Q17 ,18		*	2SA1124A	TRANSISTOR		
Q19 ,20			2SC1841	TRANSISTOR		
Q21 ,22		*	2SC2631A	TRANSISTOR		
Q23 ,24		*	2SA1123A	TRANSISTOR		
Q25 ,26		*	2SC2592	TRANSISTOR		
Q27 ,28		*	2SA1112*1	TRANSISTOR		
△ Q29 ,30		*	DAT1018N	TRANSISTOR		
△ Q29 ,30		*	DAT2101	TRANSISTOR		
△ Q31 ,32		*	DAT1018P	TRANSISTOR		
△ Q31 ,32		*	DAT2201	TRANSISTOR		
△ Q33 ,34		*	DAT1018N	TRANSISTOR		
△ Q33 ,34		*	DAT2101	TRANSISTOR		

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D4			1S1555	DIODE		
D4			1S2076	DIODE		
D5 ,6		*	MA27W(A)	VARISTOR		
D7 ,8		*	RD24J(B3)	ZENER DIODE		
D9 -12			W06B	DIODE		
D13			1S1555	DIODE		
D13			1S2076	DIODE		
IC1 ,2			TA2010A	IC	(EQ AMP)	
Q1 ,2			2SK240(V)	FET		
Q5 -12			2SC2557(S,T)	TRANSISTOR		
Q13 -16			2SK301(Q,R)	FET		
Q17 ,18			2SC2003(L,K)	TRANSISTOR		
Q19 ,20			2SA954(L,K)	TRANSISTOR		
Q21			2SD313V-AL	TRANSISTOR		
Q22			2SB514(E,F)	TRANSISTOR		
Q23 ,24			2SK105(H)	FET		
Q23 ,24		*	2SK105A(2)	FET		
Q27 -30			2SC945(A)(Q,P)	TRANSISTOR		
Q31 ,32		*	2SD571(L,K)	TRANSISTOR		
Q33 -38			2SC945(A)(Q,P)	TRANSISTOR		
Q39			2SA992(F,E)	TRANSISTOR		
Q40 -44			2SC945(A)(Q,P)	TRANSISTOR		
Q45 ,46		*	2SD571(L,K)	TRANSISTOR		

CONTROL (X11-1882-71)

C1 ,2			CQ93AP2A224J	POLYPRQ	0.22UF	J		
C3 ,4			C91-0088-05	POLYSTY	100PF	K		
C5 ,6			CQ93FM1H333J	MYLAR	0.033UF	J		
C7 ,8			CQ93FM1H683J	MYLAR	0.068UF	J		
C9 ,10			C91-0166-05	POLYSTY	10PF	D	UMHUE	
C9 ,10			C91-0166-05	POLYSTY	10PF	D	XT	
C9 ,10			C91-0170-05	POLYSTY	22PF	K	E	
C11 ,12			CK45FB1H152K	CERAMIC	1500PF	K	UMHUE	
C11 ,12			CK45FB1H152K	CERAMIC	1500PF	K	XT	
C11 ,12			CK45FB1H222K	CERAMIC	2200PF	K	E	
C13 ,14			C91-0095-05	POLYSTY	390PF	J		
C15 ,16		*	CK45FB1H272K	CERAMIC	2700PF	K	E	
C15 ,16			CK45FB1H681K	CERAMIC	680PF	K	UMHUE	
C15 ,16			CK45FB1H681K	CERAMIC	680PF	K	XT	
C17 ,18			C91-0090-05	POLYSTY	150PF	J	UMHUE	
C17 ,18			C91-0090-05	POLYSTY	150PF	J	XT	
C17 ,18			C91-0095-05	POLYSTY	390PF	J	E	
C19 ,20			CC45FSL1H470J	CERAMIC	47PF	J		
C21 -26			CQ93FM1H334J	MYLAR	0.33UF	J		
C27 -30			CQ93FM1H562J	MYLAR	5600PF	J		
C37 ,38			CC45FSL1H101J	CERAMIC	100PF	J		
C39 ,40			CQ93FM1H102J	MYLAR	0.001UF	J		
C41 ,42		*	CC45FSL1H220J	CERAMIC	22PF	J		
C43 ,44		*	CEO4HW1E470MEL	NP-ELEC	47UF	25WV		
C45 ,46			CC45FSL1H101J	CERAMIC	100PF	J	E	
C47 ,48		*	CQ93FM1H273J	MYLAR	0.027UF	J		
C71 ,72			CK45FF1H103Z	CERAMIC	0.01UF	Z		
C73			CK45FB1H152K	CERAMIC	1500PF	K		
C74			CC45FSL1H470J	CERAMIC	47PF	J		
C84 ,85			CK45FF1H223Z	CERAMIC	0.022UF	Z		

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4			2SA733(A)(Q,P)	TRANSISTOR		
5 ,16			2SC945(A)(Q,P)	TRANSISTOR		
7 ,18			2SC2320(E,F,G)	TRANSISTOR		
7 ,18			2SC945(A)(P,K)	TRANSISTOR		
9			2SC945(A)(Q,P)	TRANSISTOR		
10			2SC2003	TRANSISTOR		
11			2SC1845(F,E)	TRANSISTOR		
12			2SC2167	TRANSISTOR		
13			2SC945(A)(Q,P)	TRANSISTOR		

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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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Q35 ,36		*	DAT101BP	TRANSISTOR		
Q35 ,36		*	DAT2201	TRANSISTOR		
Q37 ,38			2SC2320	TRANSISTOR		
Q39 ,42			2SA999	TRANSISTOR		
Q43 ,44		*	2SC2631A	TRANSISTOR		
Q45			2SA988	TRANSISTOR		
Q46			2SC2632(Q,R,S)	TRANSISTOR		
Q47			2SA957	TRANSISTOR		
POWER AMPLIFIER (X08-2050-51)						
D14 -18	2B	*	B30-0434-05	LED(SLP-175D-50) (SELECTOR)		
C1 -12		*	CC45FSL1H121J	CERAMIC	120PF	J
C15 ,16			CK45FB1H681K	CERAMIC	680PF	K
C17 ,18			CC45FSL1H271J	CERAMIC	270PF	J
C19 -22			CK45FB1H222K	CERAMIC	2200PF	K
C23 ,24			CC45FSL1H050C	CERAMIC	5.0PF	C
C25 ,26			CC45FSL1H101J	CERAMIC	100PF	J
C27 ,28			CC45FSL1H221J	CERAMIC	220PF	J
C29 ,30			CK45FB1H152K	CERAMIC	1500PF	K
C33 ,34		*	CQ93AP2A683GMA	MYLAR	0.068UF	G
C35 ,36		*	CQ93AP2A332GMA	MYLAR	3300PF	G
C37 ,38		*	CQ93AP2A203GMA	MYLAR	0.020UF	G
C45 ,46		*	CK45FB1H102K	CERAMIC	0.001UF	K
C49 ,50		*	CEO4HW1H4R7MEL	NP-ELEC	4.7UF	50WV
C51 ,52		*	CQ09S1H331J	POLYSTY	330PF	J
C53 ,54			CQ93FM1H103J	MYLAR	0.010UF	J
C59 ,60		*	CEO4HW1H3R3MEL	NP-ELEC	3.3UF	50WV
C67 ,68		*	CEO4HW1H3R3MEL	NP-ELEC	3.3UF	50WV
C76		*	CK45FB1H102K	CERAMIC	0.001UF	K
C77 ,78			CC45FSL1H101J	CERAMIC	100PF	J
310	2D		E06-0513-05	REC/PLAY JACK		
311	2B		E11-0093-05	PHONE JACK		
			E40-0356-05	SOCKET FOR PIN ASSY		
E1 ,2		*	E13-0814-05	PHONE JACK		
E3		*	E13-0492-05	PHONE JACK		
L1 ,2			L40-1011-43	SMALL FIXED INDUCTOR		
R29 ,30		*	RN14BK2E820JHD	RN	82	J 2E
R39 ,40		*	RN14BK2E3R3JHD	RN	3.3	J 2E
R41 ,42		*	RN14BK2E4532GHD	RN	45K	2 2E
R43 ,44		*	RN14BK2E3741GHD	RN	370K	1 2E
R45 ,46		*	RD14GB2E101JTS	FL-PROOF RD	100	J 2E
R55 ,58			RD14GB2E100JTS	FL-PROOF RD	10	J 2E
R63 ,66			RS14GB3A101JMA	FL-PROOF RS	100	J 3A
R127,128			RS14GB3D561JMA	FL-PROOF RS	560	J 3D
RL1		*	S51-2061-05	REED RELAY		
S1		*	S90-0064-05	ELECTROMAGNETIC SW (PHONE 1/2)		
S2		*	S90-0065-05	ELECTROMAGNETIC SW (MM/MC)		
S3		*	S42-2082-05	MULTIPLE PUSH SW (MM/MC)		
S4	1D		S31-2059-05	SLIDE SWITCH (PHONE IMPEDANCE)		
S5	2D		S90-0038-05	SLIDE SWITCH (REC OUT SELECT)		
S6	2B		S42-5033-05	MULTIPLE PUSH SW (SELECTOR)		
D1 -3			1S1555	DIODE		
D1 -3			1S2076	DIODE		

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Ref. No.	Address	New Parts	Parts No.	Description	Desti-nation	Re-marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
D4			1S1555	DIODE		
D4			1S2076	DIODE		
D5 ,6		*	MA27W(A)	VARISTOR		
D7 ,8		*	RD24J(B3)	ZENER DIODE		
D9 -12			W06B	DIODE		
D13			1S1555	DIODE		
D13			1S2076	DIODE		
IC1 ,2			TA2010A	IC	(EQ AMP)	
Q1 ,2			2SK240(V)	FET		
Q5 -12			2SC2557(S,T)	TRANSISTOR		
Q13 -16			2SK301(Q,R)	FET		
Q17 ,18			2SC2003(L,K)	TRANSISTOR		
Q19 ,20			2SA954(L,K)	TRANSISTOR		
Q21			2SD313V-AL	TRANSISTOR		
Q22			2SB514(E,F)	TRANSISTOR		
Q23 ,24			2SK105(H)	FET		
Q23 ,24		*	2SK105A(2)	FET		
Q27 -30			2SC945(A)(Q,P)	TRANSISTOR		
Q31 ,32		*	2SD571(L,K)	TRANSISTOR		
Q33 -38			2SC945(A)(Q,P)	TRANSISTOR		
Q39			2SA992(F,E)	TRANSISTOR		
Q40 -44			2SC945(A)(Q,P)	TRANSISTOR		
Q45 ,46		*	2SD571(L,K)	TRANSISTOR		
CONTROL (X11-1882-71)						
C1 ,2			CQ93AP2A224J	POLYPRO	0.22UF	J
C3 ,4			C91-0088-05	POLYSTY	100PF	K
C5 ,6			CQ93FM1H333J	MYLAR	0.033UF	J
C7 ,8			CQ93FM1H683J	MYLAR	0.068UF	J
C9 ,10			C91-0166-05	POLYSTY	10PF	D
C9 ,10			C91-0166-05	POLYSTY	10PF	D
C9 ,10			C91-0170-05	POLYSTY	22PF	K
C11 ,12			CK45FB1H152K	CERAMIC	1500PF	K
C11 ,12			CK45FB1H152K	CERAMIC	1500PF	K
C11 ,12			CK45FB1H222K	CERAMIC	2200PF	K
C13 ,14		*	C91-0095-05	POLYSTY	390PF	J
C15 ,16		*	CK45FB1H272K	CERAMIC	2700PF	K
C15 ,16		*	CK45FB1H681K	CERAMIC	680PF	K
C17 ,18		*	C91-0090-05	POLYSTY	150PF	J
C17 ,18		*	C91-0095-05	POLYSTY	390PF	J
C19 ,20			CC45FSL1H470J	CERAMIC	47PF	J
C21 -26			CQ93FM1H334J	MYLAR	0.33UF	J
C27 -30			CQ93FM1H562J	MYLAR	5600PF	J
C37 ,38			CC45FSL1H101J	CERAMIC	100PF	J
C39 ,40			CQ93FM1H102J	MYLAR	0.001UF	J
C41 ,42			CC45FSL1H220J	CERAMIC	22PF	J
C43 ,44		*	CEO4HW1E470MEL	NP-ELEC	47UF	25WV
C45 ,46		*	CC45FSL1H101J	CERAMIC	100PF	J
C47 ,48		*	CQ93FM1H273J	MYLAR	0.027UF	J
C71 ,72			CK45FF1H103Z	CERAMIC	0.01UF	Z
C73			CK45FB1H152K	CERAMIC	1500PF	K
C74			CC45FSL1H470J	CERAMIC	47PF	J
C84 ,85		*	CK45FF1H223Z	CERAMIC	0.022UF	Z

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KA-2200 KA-2200

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C86			CK45FB1H102K	CERAMIC 0.001UF K		
C87			CK45FF1H223Z	CERAMIC 0.022UF Z		
-			E13-0213-05	PHONE JACK		
-			E23-0125-05	TERMINAL		
R1 ,2			RN14DK2E472JHD	RN 4.7K J 2E		
R3 ,4			RN14DK2E331JHD	RN 330 J 2E		
R5 ,6			RN14DK2E562JHD	RN 5.6K J 2E		
R13 ,14			RN14DK2E101JHD	RN 100 J 2E		
R15 ,16			RN14DK2E274JHD	RN 270K J 2E		
R37 ,38		*	RN92BC2E301F	RN 300 F 2E		
R39 ,40		*	RN92BC2E162F	RN 1.6K F 2E		
R41 ,42		*	RN92BC2E151F	RN 150 F 2E		
R47 ,48			RN14DK2E101JHD	RN 100 J 2E		
R123			RD14GB2E150J	FL-PROOF RD 150 J 2E		
R128			RS14GB3A471JMA	FL-PROOF RS 470 J 3A		
R129			RS14GB3D331JMA	FL-PROOF RS 330 J 3D		
R130			RS14GB3D391JMA	FL-PROOF RS 390 J 3D		
VR1	3B		R06-5098-05	POTENTIOMETER(CLICK) BALANCE		
VR2	2B	*	R11-9015-05	POTENTIOMETER VOLUME CONTROL		
VR3 ,4	2B		R06-3032-05	POTENTIOMETER(CLICK) BASS, TREB		
VR5 ,6			R12-0502-05	TRIMMING POT. 100 (OFFSET)		
RL1			S51-2041-05	MAGNETIC RELAY		
S1	2B		S42-2082-05	MULTI. PUSH SW (MODE, SUBSONIC)		
S2	2B	*	S29-2026-05	ROTARY SWITCH (LOUD LEVEL)		
S3	2B	*	S29-2025-05	ROTARY SWITCH (LOUD FREQ)		
S4	2B	*	S42-3064-05	MULTI. PUSH SW (TONE, FREQ SW)		
S5	3B		S40-1065-05	PUSH SWITCH (FADER)		
S6	3B		S40-2122-05	PUSH SW (AUX/DAD FRONT/REAR)		
PHC1			T95-0006-05	OPTO ISOLATOR		
D1 ,2			RD5.6J(B1)	ZENER DIODE		
D3 -6			1N60	DIODE	E	
D3 -6			1S1555	DIODE	UMHUE	
D3 -6			1S1555	DIODE	XT	
D3 -6			1S2076	DIODE	UMHUE	
D3 -6			1S2076	DIODE		
D11 -21			1S1555	DIODE		
D11 -21			1S2076	DIODE		
D22		*	RD8.2J(B2)	ZENER DIODE		
D23 ,24		*	WZ-135	ZENER DIODE	XT	
D25 ,26		*	BZ-197	ZENER DIODE		
D27 ,28		*	1S1555	DIODE		
D27 ,28		*	1S2076	DIODE		
IC1 ,2			TA7322P	IC (FLAT AMP)		
IC3		*	NJM2041D-D	IC (TONE AMP)		
IC4			TC4027BP	IC (J-K FLIP-FLOP)		
IC4			UPD4027BC	IC (J-K FLIP-FLOP)		
Q1 ,2			UPA68H(L,M)	DUAL FET		
Q3 -6			2SC1845(F,E)	TRANSISTOR		
Q7 ,8			2SC2291(F,G)	DUAL TRANSISTOR		
Q11 ,12			2SC2320(E,F,G)	TRANSISTOR		
Q11 ,12			2SC945(A)(P,K)	TRANSISTOR		
Q13			2SC945(A)(Q,P)	TRANSISTOR		

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Q14			2SA733(A)(Q,P)	TRANSISTOR		
Q15 ,16			2SC945(A)(Q,P)	TRANSISTOR		
Q17 ,18			2SC2320(E,F,G)	TRANSISTOR		
Q17 ,18			2SC945(A)(P,K)	TRANSISTOR		
Q19			2SC945(A)(Q,P)	TRANSISTOR		
Q20			2SC2003	TRANSISTOR		
Q21			2SC1845(F,E)	TRANSISTOR		
Q22			2SC2167	TRANSISTOR		
Q23			2SC945(A)(Q,P)	TRANSISTOR		

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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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